



SEQUENCE LISTING

<110> YAN, Chunhua et al.

<120> ISOLATED HUMAN SECRETED PROTEINS,
NUCLEIC ACID MOLECULES ENCODING HUMAN SECRETED PROTEINS, AND
USES THEREOF

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<170> FastSEQ for Windows Version 4.0

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<211> 1839

<212> DNA

<213> Homo sapiens

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Cys	Ser	Ser	Tyr	Ala	Arg	Cys	Tyr	Asn	Ile	His	Gly	Ser	Tyr	Lys	Cys	
	275					280					285					
Gln	Cys	Arg	Asp	Gly	Tyr	Glu	Gly	Asp	Gly	Leu	Asn	Cys	Val	Tyr	Ile	
290						295				300						
Pro	Lys	Val	Met	Ile	Glu	Pro	Ser	Gly	Pro	Ile	His	Met	Pro	Glu	Arg	
305				310						315					320	
Asn	Gly	Thr	Ile	Ser	Lys	Gly	Asp	Gly	Gly	His	Ala	Asn	Arg	Ile	Pro	
			325					330					335			
Asp	Ala	Gly	Ser	Thr	Arg	Trp	Pro	Leu	Lys	Thr	Pro	Tyr	Ile	Pro	Pro	
		340						345					350			
Val	Ile	Thr	Asn	Arg	Pro	Thr	Ser	Lys	Pro	Thr	Thr	Arg	Pro	Thr	Pro	
	355					360						365				
Asn	Pro	Thr	Pro	Gln	Pro	Thr	Pro	Pro	Pro	Pro	Pro	Pro	Leu	Pro	Thr	
	370					375					380					
Glu	Pro	Arg	Thr	Thr	Pro	Leu	Pro	Pro	Thr	Pro	Glu	Arg	Pro	Ser	Thr	
385				390						395					400	
Arg	Pro	Thr	Thr	Ile	Ala	Pro	Ala	Thr	Ser	Thr	Thr	Thr	Arg	Val	Ile	
			405					410					415			
Thr	Val	Asp	Asn	Arg	Ile	Gln	Thr	Asp	Pro	Gln	Lys	Pro	Arg	Gly	Asp	
		420						425					430			
Val	Phe	Ile	Pro	Arg	Gln	Pro	Thr	Asn	Asp	Leu	Phe	Glu	Ile	Phe	Glu	
	435					440						445				
Ile	Glu	Arg	Gly	Val	Ser	Ala	Asp	Glu	Glu	Val	Lys	Asp	Asp	Pro	Gly	
	450					455					460					
Ile	Leu	Ile	His	Ser	Cys	Asn	Phe	Asp	His	Gly	Leu	Cys	Gly	Trp	Ile	
465				470						475					480	
Arg	Glu	Lys	Asp	Ser	Asp	Leu	His	Trp	Glu	Thr	Ala	Arg	Asp	Pro	Ala	
			485					490					495			
Gly	Gly	Gln	Tyr	Leu	Thr	Val	Ser	Ala	Ala	Lys	Ala	Pro	Gly	Gly	Lys	
		500						505				510				
Ala	Ala	Arg	Leu	Val	Leu	Arg	Leu	Gly	His	Leu	Met	His	Ser	Gly	Asp	
	515					520						525				
Leu	Cys	Leu	Ser	Phe	Arg	His	Lys	Val	Thr	Gly	Leu	His	Ser	Gly	Thr	
	530					535					540					

Leu Gln Val Phe Val Arg Lys His Gly Thr His Gly Ala Ala Leu Trp
 545 550 555 560
 Gly Arg Asn Gly Gly His Gly Trp Arg Gln Thr Gln Ile Thr Leu Arg
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 Gly Ala Asp Val Lys Ser Val Ile Phe Lys Gly Glu Lys Arg Arg Gly
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 His Thr Gly Glu Ile Gly Leu Asp Asp Val Ser Leu Lys Arg Gly Arg
 595 600 605
 Cys

<210> 5
 <211> 592
 <212> PRT
 <213> Mus musculus

<400> 5
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 35 40 45
 Ala Arg Gln Ser Trp Gly Gln Cys Gln Pro Val Cys Gln Pro Gln Cys
 50 55 60
 Lys His Gly Glu Cys Val Gly Pro Asn Lys Cys Lys Cys His Pro Gly
 65 70 75 80
 Phe Ala Gly Lys Thr Cys Asn Gln Asp Glu Ser Phe His Pro Thr Pro
 85 90 95
 Leu Asp Gln Gly Ser Glu Gln Pro Leu Phe Gln Pro Pro Asp His Gln
 100 105 110
 Ala Thr Asn Val Pro Ser Arg Asp Leu Asn Glu Cys Gly Leu Lys Pro
 115 120 125
 Arg Pro Cys Lys His Arg Cys Met Asn Thr Phe Gly Ser Tyr Lys Cys
 130 135 140
 Tyr Cys Leu Asn Gly Tyr Met Leu Leu Pro Asp Gly Ser Cys Ser Ser
 145 150 155 160
 Ala Leu Ser Cys Ser Met Ala Asn Cys Gln Tyr Gly Cys Asp Val Val
 165 170 175
 Lys Gly Gln Val Arg Cys Gln Cys Pro Ser Pro Gly Leu Gln Leu Ala
 180 185 190
 Pro Asp Gly Arg Thr Cys Val Asp Ile Asp Glu Cys Ala Thr Gly Arg
 195 200 205
 Val Ser Cys Pro Arg Phe Arg Gln Cys Val Asn Thr Phe Gly Ser Tyr
 210 215 220
 Ile Cys Lys Cys His Thr Gly Phe Asp Leu Met Tyr Ile Gly Gly Lys
 225 230 235 240
 Tyr Gln Cys His Asp Ile Asp Glu Cys Ser Leu Gly Gln His Gln Cys
 245 250 255
 Ser Ser Tyr Ala Arg Cys Tyr Asn Ile His Gly Ser Tyr Lys Cys Gln
 260 265 270
 Cys Arg Asp Gly Tyr Glu Gly Asp Gly Leu Asn Cys Val Tyr Ile Pro
 275 280 285
 Lys Val Met Ile Glu Pro Ser Gly Pro Ile His Met Pro Glu Arg Asn
 290 295 300
 Gly Thr Ile Ser Lys Gly Asp Gly Gly His Ala Asn Arg Ile Pro Asp

305 310 315 320
 Ala Gly Ser Thr Arg Trp Pro Leu Lys Thr Pro Tyr Ile Pro Pro Val
 325 330 335
 Ile Thr Asn Arg Pro Thr Ser Lys Pro Thr Thr Arg Pro Thr Pro Asn
 340 345 350
 Pro Thr Pro Gln Pro Thr Pro Pro Pro Pro Pro Pro Leu Pro Thr Glu
 355 360 365
 Pro Arg Thr Thr Pro Leu Pro Pro Thr Pro Glu Arg Pro Ser Thr Arg
 370 375 380
 Pro Thr Thr Thr Ile Ala Pro Ala Thr Ser Thr Thr Arg Val Ile Thr
 385 390 395 400
 Val Asp Asn Arg Ile Gln Thr Asp Pro Gln Lys Pro Arg Gly Asp Val
 405 410 415
 Phe Ile Pro Arg Gln Pro Thr Asn Asp Leu Phe Glu Ile Phe Glu Ile
 420 425 430
 Glu Arg Gly Val Ser Ala Asp Glu Glu Val Lys Asp Asp Pro Gly Ile
 435 440 445
 Leu Ile His Ser Cys Asn Phe Asp His Gly Leu Cys Gly Trp Ile Arg
 450 455 460
 Glu Lys Asp Ser Asp Leu His Trp Glu Thr Ala Arg Asp Pro Ala Gly
 465 470 475 480
 Gly Gln Tyr Leu Thr Val Ser Ala Ala Lys Ala Pro Gly Gly Lys Ala
 485 490 495
 Ala Arg Leu Val Leu Arg Leu Gly His Leu Met His Ser Gly Asp Leu
 500 505 510
 Cys Leu Ser Phe Arg His Lys Val Thr Gly Leu His Ser Gly Thr Leu
 515 520 525
 Gln Val Phe Val Arg Lys His Gly Thr His Gly Ala Ala Leu Trp Gly
 530 535 540
 Arg Asn Gly Gly His Gly Trp Arg Gln Thr Gln Ile Thr Leu Arg Gly
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<210> 6
 <211> 578
 <212> PRT
 <213> Mus musculus

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 35 40 45
 Ala Arg Gln Ser Trp Gly Gln Cys Gln Pro Phe Tyr Val Leu Arg Gln
 50 55 60
 Arg Leu Ala Arg Ile Arg Cys Gln Leu Lys Ala Val Cys Gln Pro Gln
 65 70 75 80
 Cys Lys His Gly Glu Cys Val Gly Pro Asn Lys Cys Lys Cys His Pro
 85 90 95
 Gly Phe Ala Gly Lys Thr Cys Asn Gln Asp Leu Asn Glu Cys Gly Leu
 100 105 110

Lys	Pro	Arg	Pro	Cys	Lys	His	Arg	Cys	Met	Asn	Thr	Phe	Gly	Ser	Tyr		
		115					120					125					
Lys	Cys	Tyr	Cys	Leu	Asn	Gly	Tyr	Met	Leu	Leu	Pro	Asp	Gly	Ser	Cys		
	130					135					140						
Ser	Ser	Ala	Leu	Ser	Cys	Ser	Met	Ala	Asn	Cys	Gln	Tyr	Gly	Cys	Asp		
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			165						170					175			
Leu	Ala	Pro	Asp	Gly	Arg	Thr	Cys	Val	Asp	Ile	Asp	Glu	Cys	Ala	Thr		
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Gly	Arg	Val	Ser	Cys	Pro	Arg	Phe	Arg	Gln	Cys	Val	Asn	Thr	Phe	Gly		
	195						200					205					
Ser	Tyr	Ile	Cys	Lys	Cys	His	Thr	Gly	Phe	Asp	Leu	Met	Tyr	Ile	Gly		
	210					215					220						
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225					230					235					240		
Gln	Cys	Ser	Ser	Tyr	Ala	Arg	Cys	Tyr	Asn	Ile	His	Gly	Ser	Tyr	Lys		
				245					250					255			
Cys	Gln	Cys	Arg	Asp	Gly	Tyr	Glu	Gly	Asp	Gly	Leu	Asn	Cys	Val	Tyr		
			260					265				270					
Ile	Pro	Lys	Val	Met	Ile	Glu	Pro	Ser	Gly	Pro	Ile	His	Met	Pro	Glu		
	275					280					285						
Arg	Asn	Gly	Thr	Ile	Ser	Lys	Gly	Asp	Gly	Gly	His	Ala	Asn	Arg	Ile		
	290					295					300						
Pro	Asp	Ala	Gly	Ser	Thr	Arg	Trp	Pro	Leu	Lys	Thr	Pro	Tyr	Ile	Pro		
305					310					315					320		
Pro	Val	Ile	Thr	Asn	Arg	Pro	Thr	Ser	Lys	Pro	Thr	Thr	Arg	Pro	Thr		
				325					330					335			
Pro	Asn	Pro	Thr	Pro	Gln	Pro	Thr	Pro	Pro	Pro	Pro	Pro	Pro	Leu	Pro		
		340						345					350				
Thr	Glu	Pro	Arg	Thr	Thr	Pro	Leu	Pro	Pro	Thr	Pro	Glu	Arg	Pro	Ser		
	355					360						365					
Thr	Arg	Pro	Thr	Thr	Ile	Ala	Pro	Ala	Thr	Ser	Thr	Thr	Thr	Arg	Val		
	370					375					380						
Ile	Thr	Val	Asp	Asn	Arg	Ile	Gln	Thr	Asp	Pro	Gln	Lys	Pro	Arg	Gly		
385				390						395					400		
Asp	Val	Phe	Ile	Pro	Arg	Gln	Pro	Thr	Asn	Asp	Leu	Phe	Glu	Ile	Phe		
				405					410					415			
Glu	Ile	Glu	Arg	Gly	Val	Ser	Ala	Asp	Glu	Glu	Val	Lys	Asp	Asp	Pro		
			420					425				430					
Gly	Ile	Leu	Ile	His	Ser	Cys	Asn	Phe	Asp	His	Gly	Leu	Cys	Gly	Trp		
	435					440					445						
Ile	Arg	Glu	Lys	Asp	Ser	Asp	Leu	His	Trp	Glu	Thr	Ala	Arg	Asp	Pro		
	450					455					460						
Ala	Gly	Gly	Gln	Tyr	Leu	Thr	Val	Ser	Ala	Ala	Lys	Ala	Pro	Gly	Gly		
465					470					475					480		
Lys	Ala	Ala	Arg	Leu	Val	Leu	Arg	Leu	Gly	His	Leu	Met	His	Ser	Gly		
				485					490					495			
Asp	Leu	Cys	Leu	Ser	Phe	Arg	His	Lys	Val	Thr	Gly	Leu	His	Ser	Gly		
		500						505				510					
Thr	Leu	Gln	Val	Phe	Val	Arg	Lys	His	Gly	Thr	His	Gly	Ala	Ala	Leu		
	515					520						525					
Trp	Gly	Arg	Asn	Gly	Gly	His	Gly	Trp	Arg	Gln	Thr	Gln	Ile	Thr	Leu		
	530					535					540						
Arg	Gly	Ala	Asp	Val	Lys	Ser	Val	Ile	Phe	Lys	Gly	Glu	Lys	Arg	Arg		
545					550					555					560		
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Arg Cys

565

570

575

<210> 7
 <211> 601
 <212> DNA
 <213> Homo sapiens

<400> 7

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gaagttgggc caccgcacag cgtggcgaga ggagagcggg ccagcggctc cgagtgcgag 180
cccgaggcgg agagggcgcg cccttgcgag tctgggacct catccgcggc ccccgaggg 240
cgactcgccc cggtcggga attagactg agggagagga gccgctggag cctgggatct 300
yggctctgag ggcgcgggtt agccacctac gccgaggtga cgcgcgaaac atcccttacc 360
cgggaaactc ccgcgcctga actagacggc tcttactagg ggaagcttcc agggccccgg 420
ggggaggccc gggctctgct cagggtcttc ggggcgcgtc acacagagag tgggtgcgag 480
tcagcgactg ggctacgggg gagatttgtg ggcctctcca tttgggtttc ttgaggggag 540
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t                                                                 601

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<210> 8
 <211> 601
 <212> DNA
 <213> Homo sapiens

<400> 8

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gctccgagtg cccgcccag ggcgagaggg cgcgccttg cgagtctggg accccatccg 180
cgcccccccg agggcgactc gccccggctc gggaattagg actgaggag aggagccgct 240
ggagcctggg atctcggtc tgagggcgag gtttagccac ctacgccgag gtgacgcgag 300
raacatccct taccgggaa actccgcgc ctgaactaga cggctcttca ctggggaagc 360
ttccaggccc ccggggggag gcccgggctc tgctcagggc tctcggggccc gctcacacag 420
agagtgggtg cgagtcagcg actgggctac gggggagatt tgtgggcctc tccatttggt 480
tttcttgagg gaaggagact caaatgagg accggagggt gggcgctccg tgaatgtgag 540
catgagtgtg tggatgtgtg tgtgagagcg cacacactgc gccgctctc agactcgggc 600
g                                                                 601

```

<210> 9
 <211> 601
 <212> DNA
 <213> Homo sapiens

<400> 9

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cctcccgttt tttctcctac ctttgtgtgt tgggggatgg ggtatttaac tgtctgaaat 120
ttgacattag atcatagcag aactatttct gtgaagggtt tttaacctta aatttctgca 180
ggcataaaag agttttaga aaattgttgg gtgtggttga ctttttttct gaagtaataa 240
tacagaggaa attaccttcc ttctcaaaag tgtccttatt ttttttgaat cttttttttt 300
rgtaggtggc ccaggcaaag agtgtcatcg attggcctat gtcggttatg tgggaggatt 360
gactgctgct ggggctgggc tcgccagtct tggggacagt gtcagcgtga gtatcaagcc 420
tggggacttc agttccctgg gaggtgtggc tttccacctt gttcatggct tcacccaca 480
tatcagaggg ttctattact agcaaggctt ggccttgacg gtctgacttg gggattttca 540
ggtacagtcc agactcctta ttctgcttct tttcagcttt agccacctgt attacggccc 600

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a

601

<210> 10
<211> 601
<212> DNA
<213> Homo sapiens

<400> 10
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gatatatatt ttattgctaa tgaggaggag gcttagagga agagagaagg gcagttacga 120
aggctagagc tggcaatgga gaagcctgcc ttagagatgg gttgctagtg tgaggagtca 180
ggcaaattta agttcaggaa agttaggagt tccctctgct attttaattt ttgaggatgc 240
ttgcaatgtc ttccttaatt ttgtgaaaga gggacagtga cagtcacaga ttgactctaa 300
ktgcacataa agaccacaat ctctgggttg gaatagaaag gtaaaggaaa tgaatgtttg 360
cctacctggt atggaatttg agaaccaaca gattctaata accaaaatgt gaagaaagga 420
cccttctgtt ggcccaacac acctacacat aaccctcctg agtgaaaaat gagtagttct 480
atacctgcag tctccagctg tgcaaatact tctgatacta cagaagacta aattccacca 540
ggcaccattc ttcttttttg atcatcttcc cttaaaacaa tattgaatag actaaccagt 600
g 601

<210> 11
<211> 601
<212> DNA
<213> Homo sapiens

<220>
<221> variation
<222> (301)...(301)
<223> 'G' may be either present or absent (single
nucleotide insertion/deletion polymorphism)

<400> 11
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ggatggtttt gtatcattta tccttaagaa cagggaataat tgagatgttt tcttatgttt 120
ctgctggaga ttttggaag atgtgaaacc tacacctaca gattgacctt gcttagttag 180
ctctgaacct cctgctgcct cttccacgta aagtgaataat tttggattct tatcggcttc 240
agataaactt acaggttagt gaaacatagg gactgagata tagtaattca ttctgaagct 300
gttttgaggat ggtcaaataa ttttagtttg ataatatata ttactggcta atgattgttg 360
atattggaag tgatgaaaaa attattgaat tatttctttc tgcatttcaa atgaaaaggc 420
tattagtttg agcagagaat tttgatttag taaacaaaat atttaaattt catgtttcat 480
ttctttctcc tatctgggtt cagatactca gtcttataaa tggaacatga tttatttttg 540
ctccctaaac tggttattaa ctctctgtcc ataatacaca aactatatag attatatatt 600
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<210> 12
<211> 382
<212> DNA
<213> Homo sapiens

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tggcatgggt tatttgcag ttgagagtca agatttaact aaattttaaa accaaacact 120
tcatttgatc aatatctttt taaccattct gtagattaat aatataaatt ctccagagct 180
gacattactt tgctataaca tcatcagatc acaagattag ggttgccctt tgtagatgtt 240
attcacttac tctgaaatgt taggaaatat gtcatcacag tttaaatttg tagtaataata 300
yacaaaagga aaacacaact aggaattttg gatttatgtc tactttgcca aaaaccatgt 360
tgattttcaa aaacctttag cc 382

<210> 13
 <211> 601
 <212> DNA
 <213> Homo sapiens

<400> 13
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 aggatttttt ttttaagtga aagggatagt gcttaattat gacaaataaa agctaacttg 120
 agatgcacat atacagatgc agccacttat tttggcgggg gacacttcag gaattaaaat 180
 ttaaatagcg agagatcaaa tagatacttg gtaaattgtg ctgaattgga tgttcccaga 240
 cacaaaaata aaatgagtta ttgacagctc ttgggagaca acattataaa gactagacac 300
 kttattttatt ttaactctat gttctaaatt accattgagt aattgacatt cgtatttgac 360
 tatggtttgt ggttaagttc ttaattgcaa taatgttaaa taaaatgtga agcccaaagc 420
 aaacaacaac aaaaattata gcaatacttc aacagaggta ataataatat gctgcatcaa 480
 tggttcagaa tccagcatct acataaaaca agcaacaggg taatgaaatt attttctttt 540
 caaatattct ggcagagcta ctttagtttt cttaagttat agattgtggt cttaactgca 600
 a 601

<210> 14
 <211> 601
 <212> DNA
 <213> Homo sapiens

<400> 14
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 cactgcctct aacacaccaa cctgcagttg tagttattac acaccctcct tggttctttc 120
 atctctctat cacagccctt gttgtggttt agccaatata ttttagttcc acagctaaat 180
 tttcataccc tctatgactc tctaattccc tgccacactt gctactata atacattata 240
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 rtaactttgt gctatatagg agaatatctt tttgtgcaac agtttccaaa gggttttctt 360
 tttctaagaa gaaagaaatt gattgtatca actttatgag tatcctaccg catttaatag 420
 ccattggcta atctaagggt tcttggttac ttcactgaat agcctatcag atggaagtgc 480
 aaacaacagt ttgttttgaa ataggactcc ctaaactatg aagaaacatt aacagtgttg 540
 gcctgttgga atgtgtgcat ttgatgtgct caagattagg gcactctgct tgagaacaaa 600
 t 601

<210> 15
 <211> 395
 <212> DNA
 <213> Homo sapiens

<400> 15
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 tgggtagtct gctcccttct ctgtctactc atgcttcaag attcaacata agcctctctt 180
 atgaggcttt ctgcacgtat gtatatggat ttgcttgtgt aatgatttct tcacagattt 240
 catattgctg ataaataaat attgttttga ataagaaacg tggttttgta tttttatctc 300
 rattgtagac tccttgagac cagtaccatg ctatacaatt atttttcatc tattatagtg 360
 tctggcatag ggacatgcac atatttggtta cagaa 395

<210> 16
 <211> 601
 <212> DNA
 <213> Homo sapiens

<400> 16

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aaactgtttt cattcaggcc cacacatttt aataaagtag aaaatatgct tcacagataa 180
gggaaatcaa acaggctcct tttttctgga ggagagaaat gtcaaaaaga attaaatttg 240
aaataacttt acagaactgg aaattagctt ttgattaaaa gtagcttttg gtatatgaca 300
rgtattcact gagaattttg tagcgagtta tatactttta gaaataaccc ccagaaactt 360
gcatcatggt gtaaacagct tgaataaaca agtgcttaac cagtgccttt agagctgcct 420
gggaaacagc cagaatacca gggcaagctg cattttggaa ctggtttaat ttagtagcct 480
tgccacaggc ttagtgtgat ctgcttttgg tggcttgatc ttccccacta agtcattttc 540
tggatttggt acacctagaa ctgttaggaa attacaggct tgggctgac attaacatac 600
t                                                                 601

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<210> 17
 <211> 601
 <212> DNA
 <213> Homo sapiens

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<400> 17
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ttgaatttat tgcttaattg aatgatctcc aatagattgt gataatgaac acagcattta 180
tagaaagcag cacatattaa cttacttaat atggcactag gtcaatgaga aaagaaggta 240
acataattga agacaagaaa ctcttaagaa aactgaggac aaaaaggctt ctcaccagga 300
yaccagatgc atttaatctt ttgaagctct gtacttttagg aaaagtctga tatttggcaa 360
attttgataa acatggatga ctatggaatc ctattttata gtatctgaag tggctttcat 420
aagggtcatt gtgaagtttt taggagacac ctgcctgtgg cagatgggac aatgatggca 480
gtcactagtg atattaacac cagtcagctg tcagggaata tcatccagac catcagcagc 540
tggtagagta cagctttctc aattgctttc catgttttgg atactttatat gcccgttaat 600
a                                                                 601

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<210> 18
 <211> 601
 <212> DNA
 <213> Homo sapiens

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<400> 18
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tgaatttatt gcttaattga atgatctcca atagattgtg ataatagaaca cagcatttat 180
agaaagcagc acatattaac ttacttaata tggcactagg tcaatgagaa aagaaggtaa 240
cataattgaa gacaagaaac tcttaagaaa actgaggaca aaaaggcttc tcaccaggac 300
rccagatgca tttaatcttt tgaagctctg tacttttagga aaagtctgat atttggcaaa 360
ttttgataaa catggatgac tatggaatcc tattttatag tatctgaagt ggctttcata 420
agggtcattg tgaagttttt aggagacacc tgcctgtggc agatgggaca atgatggcag 480
tcactagtga tattaacacc agtcagctgt cagggaatat catccagacc atcagcagct 540
ggtagagtac agctttctca attgctttcc atgttttggg tactttatatg cccgttaata 600
a                                                                 601

```

<210> 19
 <211> 601
 <212> DNA
 <213> Homo sapiens

```

<400> 19
agcacatatt aacttactta atatggcact aggtcaatga gaaaagaagg taacataatt 60
gaagacaaga aactcttaag aaaactgagg acaaaaaggc ttctcaccag gacaccagat 120
gcattttaatc ttttgaagct ctgtacttta ggaaaagtct gatatttggc aaattttgat 180

```

aaacatggat	gactatggaa	tcctatttta	tagtatctga	agtggctttc	ataaggggtca	240
ttgtgaagtt	tttaggagac	acctgcctgt	ggcagatggg	acaatgatgg	cagtcactag	300
kgatattaac	accagtcagc	tgtcagggaa	tatcatccag	accatcagca	gctggtagag	360
tacagctttc	tcaattgctt	tccatgtttt	ggatacttat	atgcccgtta	ataacaggta	420
aaatagccag	tacatcattt	ccacattttac	ccattgaatg	ttgcatgttt	tcttcctttc	480
acatattcat	acagtccaga	tttttttttg	gactcatgac	agcacattgg	cttttctttc	540
ctttcagttt	catgattctt	aaccccaaag	tgcttttgcc	atgggaacgg	aaggataaat	600
t						601

<210> 20
 <211> 601
 <212> DNA
 <213> Homo sapiens

<400> 20						
gtggtgatgg	ctggaatgtc	aggggcaggg	gagagtactg	gcgttaagtt	aaaccaacag	60
acatccagtt	taaccactgg	tagttctcag	tctacatgta	gtttatttct	tctgtttatc	120
tgccaatttt	atgtagatca	tcacattgcc	aaaaaaaaatc	atttttgaaa	ctgtatatat	180
tttttatgtc	atcatattta	tctcctaaat	aagtctcttc	ttttcctact	ttctgatgca	240
gacatagacg	aatgctcact	tggtcagtat	cagtgacagca	gctttgctcg	atgttataac	300
rtacgtgggt	cctacaagtg	caaatgtaaa	gaaggatacc	aggggtgatgg	actgacttgt	360
gtgtgtgagt	agcacttgtc	tctcagcttt	aaattctagc	aggaaataca	ggattacaca	420
aaggccattg	ctagggaaaa	taaggaataa	gattatcaaa	gaagtataat	tgtcataatt	480
ggttatattt	gtctttgatt	tccacaaaac	ataaaatcac	ttgctcaggt	acttgtaaaa	540
actaaggact	cagtaataca	ctataatctt	aagagtattt	taatctcttc	actgaaatct	600
c						601

<210> 21
 <211> 601
 <212> DNA
 <213> Homo sapiens

<400> 21						
aggtaatggg	acctctatca	cctgttgcta	aggtctaata	atgtggattc	atccttaatt	60
actcttcata	catacagtca	atatgtaagg	aaatcctgtt	agctgtacct	tcaaattata	120
tttaagtgtg	accttttctc	accaactcca	gtgctaccac	cctggcccaa	gccatctctc	180
ccctggaata	caggcccaaa	atcctttatc	caaataactt	atggaatata	gcatttttta	240
gatttttagaa	aatcagtaag	gtacacatac	tatatagtac	acactgaagt	agtgaacat	300
rctgattttc	ctctagtgtc	tttactgtga	acgtatcaat	gttaaggaaa	ggaaaatgat	360
attaactcag	agatgatgtc	tcacagcata	tatttactag	cttgcacaaa	ttttttaatg	420
ttagcaagat	ttaaggcaaa	ttttttactt	atattttaat	tggatcctat	gatgattatt	480
aaagaaaaaa	gtagttatct	ctagaaagta	taaattgagc	tcttgacaaa	tgtgagcaaa	540
accagaaatc	agattttttt	aaagttacgt	gtacatttgt	ctatagagtt	ataattaaaa	600
g						601

<210> 22
 <211> 601
 <212> DNA
 <213> Homo sapiens

<400> 22						
gtctaataat	gtggattcat	ccttaattac	tcttcataca	tacagtcaat	atgtaaggaa	60
atcctgttag	ctgtaccttc	aaattatatt	taagtgtgac	cttttctcac	caactccagt	120
gctaccaccc	tggcccaagc	catctctccc	ctggaatata	ggcccaaaat	cctttatcca	180
aataacttat	ggaatatagc	attttttaga	ttttagaaaa	tcagtaagggt	acacatacta	240
tatagtacac	actgaagtag	tgaacatgac	tgattttcct	ctagtgtctt	tactgtgaac	300
rtatcaatgt	taaggaaagg	aaaatgatat	taactcagag	atgatgtctc	acagcatata	360

```

tttactagct tgcacaaatt ttttaatggt agcaagattt aaggcaaatt ttttacttat 420
atthtaattg gatcctatga tgattattaa agaaaaaagt agttatctct agaaagtata 480
aattgagctc ttggcaaatt tgagcaaaac cagaaatcag atttttttta agttacgtgt 540
acatttgctc atagagttat aattaaaagt attgtgctca tagccagtct gtgatctggg 600
g
601

```

```

<210> 23
<211> 601
<212> DNA
<213> Homo sapiens

```

```

<220>
<221> variation
<222> (301)...(301)
<223> 'A' may be either present or absent (single
nucleotide insertion/deletion polymorphism)

```

```

<221> misc_feature
<222> (1)...(601)
<223> n = A,T,C or G

```

```

<400> 23
ctactattga tgttgaattc atttatatag taatgataac atttcctact taattcataa 60
aaagacagcc tatgctgttt tcttggtctg agtttatatg tttctcatgc tttttattat 120
ggttcattac aatttttaatt ttattttttta ctaactagat ccttttgaaa caaattgggt 180
tgcaagtgtg agctgttagg tgcacagaga aaaatgaaaa tagaaacttg cgattttatt 240
ctaggcttgt taccaaatat ttagaatact gtgtttttatt taggtgttta tagtctcatt 300
agacagttgt gatttttaaaa tagagaccac atcatctcaa cttcttttact gtgaaaataa 360
tgacaatagt ctttttcagag atgaatctgt ctagatggga aatttacatg attgatctga 420
tgagnnnnnnn nnnnnnnnnnn nnnnnnnnnnn nnnnnnnnnnn nnnnnnnnnnn nnnnnnnnnnn 480
naaaataatc tgacaagtag tttcccaga aaatctgatt tagtaaattg accaaaagga 540
tttagaaatc tacatcataa ataaacattc tatgttattt tagttcagac cctattttta 600
t
601

```

```

<210> 24
<211> 601
<212> DNA
<213> Homo sapiens

```

```

<400> 24
acaggctccc ggtgccagga aacctttaca tcaacactcg atttgccatt tgatagtcct 60
tcatctggga ggaaaaaaa agacggaggg gagcttgaaa aactgtcata atgtccctgg 120
aatatggtac ttttaagagt tgagcctatt ccatttttga gatgatttat ataagttaca 180
acaaaagaag gggacaaaaa catgattggt ctatggagtt tttataactt tctgtcacia 240
gaaagcacgc ttgtctacaa ttttgtaata tttctagtaa ataaaagagg cactccccgt 300
ytcaagacac caaataagga aagtgttaatt ggatgtcatt gctgtcagtc agctgggcta 360
taaaagagag agtgggggtg cctcatcccc tgggtatcca cagtcagctg tgteccctaga 420
gcttcttttc tttcattgct gccagctgg gtatattgca agtatggatt ataagagggg 480
aagggacttc actgttttaa cgtttgaaac aaaaaggaaa aaactcagaa gtagtaagct 540
aaaaacaact tgtgcaaacy ttctgggatt attacttaat tttagaattt tttgctaaaa 600
a
601

```

```

<210> 25
<211> 601
<212> DNA
<213> Homo sapiens

```

<400> 25

```
aagacatagg tagcaaaaaa atgggtctagg gcatcccaac aaaattatga atgcatttgg 60
gaaaatgtca tcatttttgc ggtgcttatg aaacttgctg ttgggagata cctatgcctg 120
tatgtaggta tagtttataa gaaaccattt tagaaagaaa agatagattc cattaatata 180
gtttttatca gagtacttgg attttgttta attcttacat attttttctt aaaacttttc 240
tcagtatttt tattgttttag agaaataaaa caagataatc attttaaatac atagcactta 300
sgttttctct tgtttttataa ggagcaagga tgctctatag aaaatataat gtaagaataa 360
taaaagtttt tggttttttac ataggtaaag caacagtgtg attggattat ggtgtttgat 420
tctattccat tttcagcaag aaagcgatgt taaccacaaa ggaactaaga aacatttaag 480
ataggctgtg tgattatgat ctttcagatc tttggctcct aatatctgtt cctttatatt 540
ctatcacact cttctaactt tggtaatcct tgacaaaagt gtgcacttta taaacaatcc 600
t 601
```

<210> 26

<211> 601

<212> DNA

<213> Homo sapiens

<400> 26

```
cgtcttcaaa ggtgaaaaaa ggcgtggtca cactggggag attggattag atgatgtgag 60
cttgaaaaaa ggccactgct ctgaagaacg ctaacaactc cagaactaac aatgaactcc 120
tatgttgctc tatcctcttt ttccaattct catcttctct cctcttctcc cttttatcag 180
gcctaggaga agagtgggtc agtgggtcag aaggaagtct atttggtgac ccagggtttt 240
ctggcctgct tttgtgcaat cccaatgaac agtgataccc tccttgaaat acaggggcat 300
sgcagacaca tcaaagccat ctgtgggtgt tgccttccat cctgtgtctc tttcaggaag 360
gcattcagca tgcgtgagcc ataccatcct ccctcctgat tacaagggtgc tccttgtagc 420
aaattatgag agtgagttac gggagcagtt tttaaaagaa atctttgcag atggctatga 480
tgttatgtgt tcggtgttgt accatgagta gtattgactt cccttgagat atgatgtaca 540
atgtgcttgt gaaattgact taccctcttc acttaagtta gttctggcct gacctgaact 600
c 601
```

<210> 27

<211> 601

<212> DNA

<213> Homo sapiens

<400> 27

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aaaaggcgtg gtcacactgg ggagattgga ttagatgatg tgagcttgaa aaaaggccac 60
tgctctgaag aacgctaaca actccagaac taacaatgaa ctctatgtt gctctatcct 120
ctttttccaa ttctcatctt ctctcctctt ctccctttta tcaggcctag gagaagagtg 180
ggtcagtggg tcagaaggaa gtctatattg tgacccaggt ttttctggcc tgcttttgtg 240
caatcccaat gaacagtgat accctccttg aaatacaggg gcatcgcaga cacatcaaag 300
ycatctgtgg gtgttgccct ccctcctgtg tctctttcag gaaggcattc agcatgcgtg 360
agccatacca tcctccatcc tgattacaag gtgctccttg tagcaaatta tgagagttag 420
ttacgggagc agttttttaa agaaatcttt gcagatggct atgatgttat gtgttcggtg 480
ttgtaccatg agtagtattg acttcccttg agatatgat tacaatgtgc ttgtgaaatt 540
gacttaccct cttcacttaa gttagtctg gcctgacctg aactctgact tttactgcca 600
t 601
```

<210> 28

<211> 601

<212> DNA

<213> Homo sapiens

<400> 28

```
aacgttttaa attgatataa gtttaggcag ttgtagtcca taacttatgt tgctcatgtt 60
gtgctgtgtc aggatgggat aggaagcaag tcccatgctt agaggcatgg gatgtgttgg 120
```

```

aacgggattt acacacactg gaggagcagg gcaagttgga attctaagat ccatgaaccc 180
ccaactgtat ttcctccctg catattttac caatatatta aaaaacaatg taacttttaa 240
aaggcatcat tcctgagggt tgtcttaatt tctgattaag taatcagaat attttctgct 300
rtttttgcc a ggaatcacia agatgattaa aggggttgga aaaaagatct atgatggaaa 360
attaaaggaa ctgggattat tgagcctgga gaagagaaga ctgaggggca aaccattgat 420
ggttttcaag tatatgaagg gttggcacag agaggggtggc gaccagctgt tctccatatg 480
cactaagaat agaacaagag gaaactggct tagactagag tataaggagag catttcttgg 540
caggggccat tgttagaata cttcataaaa aaagaagtgt gaaaatctca gtatctctct 600
c 601

```

<210> 29

<211> 601

<212> DNA

<213> Homo sapiens

<400> 29

```

tcacaaagat gattaaaggg ttggaaaaaa agatctatga tggaaaatta aaggaactgg 60
gattattgag cctggagaag agaagactga ggggcaaacc attgatggtt ttcaagtata 120
tgaagggttg gcacagagag ggtggcgacc agctgttctc catatgcact aagaatagaa 180
caagaggaaa ctggcttaga ctagagtata agggagcatt tcttggcagg ggccattggt 240
agaatacttc ataaaaaaag aagtgtgaaa atctcagtat ctctctctct ttctaaaaaa 300
wtagataaaa atttgtctat ttaagatggt taaagatggt cttaccaag gaaaagtaac 360
aaattataga atttcccaa agatgttttg atcctactag tagtatgcag tgaaaatctt 420
tagaactaaa taatttggac aaggcttaat ttaggcattt ccctcttgac ctcctaattg 480
agagggttg aaaggggaag agcccaccaa atgctgagct cactgaaata tctctccctt 540
atggcaatcc tagcagtatt aaagaaaaaa ggaaactatt tattccaaat gagagtatga 600
t 601

```

<210> 30

<211> 601

<212> DNA

<213> Homo sapiens

<400> 30

```

aaaggaactg ggattattga gcctggagaa gagaagactg aggggcaaac cattgatggt 60
tttcaagtat atgaagggtt ggcacagaga ggggtggcgac cagctgttct ccatatgcac 120
taagaataga acaagaggaa actggcttag actagagtat aaggagcat ttcttggcag 180
gggccattgt tagaatactt cataaaaaaa gaagtgtgaa aatctcagta tctctctctc 240
tttctaaaaa attagataaa aatttgtcta ttaagatgg ttaaagatgt tcttacccaa 300
rgaaaagtaa caaattatag aatttcccaa aagatgtttt gatcctacta gtagtatgca 360
gtgaaaatct ttagaactaa ataatttgg caaggcttaa ttaggcatt tccctcttga 420
ctcctaattg gagagggtt gaaaggggaa gagcccacca aatgctgagc tactgaaat 480
atctctccct tatggcaatc ctagcagtat taaagaaaaa aggaaactat ttattccaaa 540
tgagagtatg atggacagat attttagtat cttagtaatg tcctagtgtg gcggtggtt 600
t 601

```